

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

Claims 1-5 are cancelled.

6. (currently amended): A method for producing polyurethane emulsion for an aqueous one-component coating agent, comprising:

reacting an organic diisocyanate (a1), a polyol (a2) having a number average molecular weight of from 500 to 10,000 and a carbonate skeleton and a glycol containing a carboxyl group (a3) to produce an isocyanate-terminated urethane prepolymer having a carboxyl group (A), wherein the glycol containing a carboxyl group (a3) ~~has a number average molecular weight of 162.18 or lower~~ is selected from the group consisting of 2,2-dimethylolpropionic acid, 2,2-dimethylolbutanoic acid, 2,2-dimethylolbutyric acid and 2,2-dimethylolvaleric acid;

mixing the urethane prepolymer (A) with a isocyanurate polyisocyanate obtained by a method selected from the group consisting of:

(1) adding an isocyanurcation catalyst to an aliphatic isocyanate and/or alicyclic isocyanate to effect an isocyanurcation reaction, wherein the unreacted aliphatic isocyanate and/or alicyclic isocyanate is removed; and

(2) reacting an aliphatic isocyanate and/or an alicyclic isocyanate with a low molecular weight polyol used for obtaining the polyester polyol, wherein an isocyanurcation catalyst is added thereto to effect an isocyanurcation reaction, followed by removing the unreacted aliphatic isocyanate and/or alicyclic isocyanate; and wherein, a part of the isocyanate group of the polyisocyanate obtained in the method (1) or (2) is further subjected to a urethanation reaction

with a monofunctional or polyfunctional polyol; wherein the polyisocyanate containing contains a nonionic polar group (B);

neutralizing the carboxyl group in the system with a neutralizing agent (C); and
subjecting the mixture to emulsification in water and chain extension with water or an amine.

7. (previously presented): The production method according to claim 6, wherein the chain extension is carried out with water.

8. (previously presented): The production method according to claim 6, wherein the chain extension is carried out with an amine.

9. (previously presented): The production method according to claim 6, wherein the organic diisocyanate (a1) is an aliphatic diisocyanate and/or an alicyclic diisocyanate.

10. (canceled).

11. (currently amended): The production method according to claim 6, wherein the isocyanurate polyisocyanate containing a nonionic polar group (B) is an isocyanurate modified product, or a composite modified product including isocyanurate modification, of an aliphatic diisocyanate and/or an alicyclic diisocyanate.